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ENVIRONMENT

PCB Coordinator
U.S. EPA Region 5
Mailstop LU-9J
77 W. Jackson Blvd
Chicago, IL 60604

Subject:
GE Aviation – Altitude Test Facility
Data Summary of Eighteenth Air Sampling Event – September 2014

Date:
October 15, 2014

Dear PCB Coordinator:

On September 24, 2014, GE Aviation, an operating division of the General Electric Company (GE), performed indoor air testing activities at the Altitude Test Facility (ATF) at GE's facility in Evendale, Ohio, in accordance with EPA's January 16, 2014 amendment to EPA's December 19, 2012 approval allowing GE to use the ATF for jet engine testing pursuant to 40 CFR § 761.62(c). This report is being submitted pursuant to Consent Agreement and Final Order (TSCA-05-2014-0008) filed on April 28, 2014.

GE collected two air samples following the completion of active jet engine testing at the ATF on September 24, 2014, and received the laboratory report containing the results on October 9, 2014. Both samples were "non-detect" for PCBs. Details on the sampling event follow.

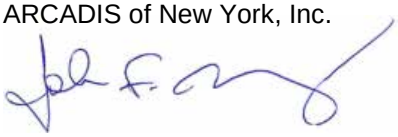
Air test sample ATF-AR-C43-12, located adjacent to the #43 Test Cell Chamber of the ATF, and air test sample ATF-AR-CR2-18, located on the second floor of the compressor room, were both taken over an 8-hour interval. The samples were collected on September 24, 2014, following the completion of active jet engine testing at the ATF. Calibration and preparation of the air samples followed Method TO-10A: Compendium of Methods for Toxic Organic Air Pollution. Both air pumps were placed in a manner such that the air sample would be collected from the breathing zone. The laboratory analytical results of the sampling event are provided in the Data Summary Table, attached as Table 1 and the sampling locations are provided on the attached Figure 1. As indicated in the attachments, sample ATF-AR-

C43-12 (collected adjacent to Test Cell #43) was non-detected (ND) for PCBs, and sample ATF-AR-CR2-18 (collected from the second floor of the ATF compressor room) had non-detected (ND) PCBs. The laboratory quantitation limit (PQL) for these results was 41.7 ng/m^3, with a final extraction volume of 5.0 mL. The specific operating parameters of the analytical instruments used by PACE Analytical during sample analysis are detailed in Attachment 1.

Please do not hesitate to contact John Rumpf, Counsel for Environmental Affairs at GE Aviation, at (513) 243-4256 or Christopher Bell at Greenberg Traurig LLP at (713) 374-3556 if you have any questions.

Sincerely,

ARCADIS of New York, Inc.



John F. Novotny, PE
Senior Engineer

Attachments
Table 1
Figure 1
Attachment 1

Copies:
John Rumpf, GE
Christopher Bell, Greenberg Traurig, LLP

Table 1
Data Summary - PCB Air Monitoring -September 2014

GE - Aviation - Altitude Test Facility
Cincinnati, Ohio

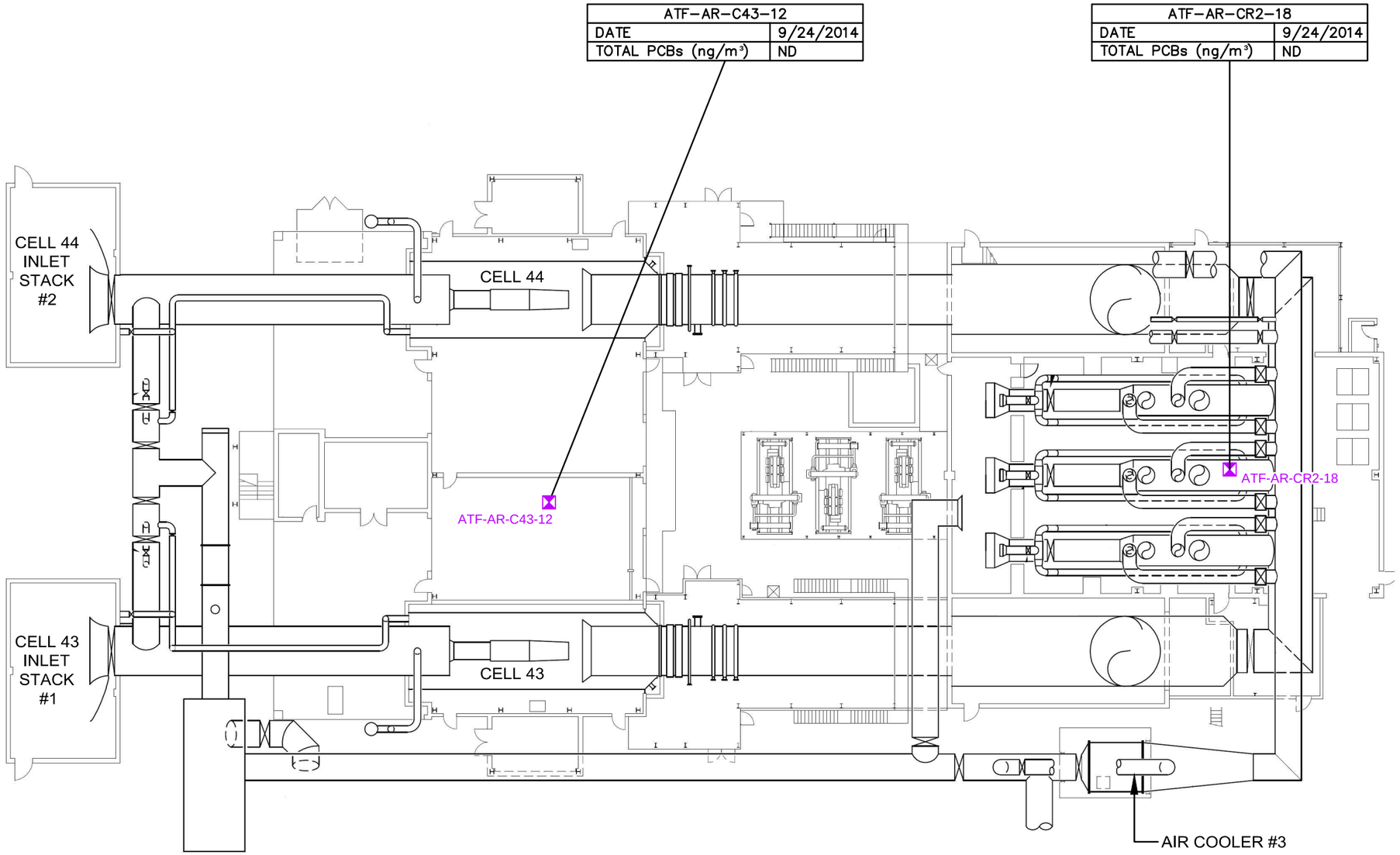
Sampling ID	Date Collected	Time Collected	Sample Type	Total PCBs (ng/m^3)	Location Description
Event 18					
ATF-AR-C43-12	9/24/2014	15:45	Air	ND	Test Cell 43 open floor area
ATF-AR-CR2-18	9/24/2014	15:40	Air	ND	Second floor of ATF Compressor Room

Notes:

1. Samples collected by ARCADIS personnel and submitted to Pace Analytical Laboratory for analysis using USEPA Compendium Method TO-10A procedures.
2. Air pumps were set up at breathing zone height and operated over an 8-hour interval at an air intake rate of approximately 5 L/min, resulting in approximately 2,400 L of air pulled through the puff for each sample.
3. Event 18 took place at the ATF on September 24, 2014 conducted following active jet engine testing in September 2014.
4. Total PCBs - the sum of aroclors 1016 through 1268
5. The final extraction volume of 5.0 mL was conducted by the laboratory.
6. The initial injection volume of 1µL was conducted by the laboratory.
7. the Laboratory determined no sample breakthrough occurred on all sample media.
8. ND (Non-Detect) - Denotes analyte not detected at a concentration greater than the MDL
9. PQL (Practical Quantitation Limit) of 41.7 ng/m^3 per aroclor. Denotes lowest analyte concentration reportable for the sample.
10. Time Collected, denotes the time which the air pumps completed the 8-hour run interval.

Abbreviations:

ATF - Altitude Test Facility
AR - PCB air sample
C43 - Test Cell #43
CR2 - compressor room-second floor
PCBs - polychlorinated biphenyls
ng/m^3 - nanograms per cubic meter



NOT TO SCALE

LEGEND:

- AMBIENT PCB AIR MONITORING LOCATION

SAMPLING NOMENCLATURE:

ATF – ALTITUDE TEST FACILITY

AR – PCB AIR SAMPLE

C43 – TEST CELL #43

CR2 – COMPRESSOR ROOM SECOND FLOOR

NOTES:

1. SAMPLING LOCATIONS ARE APPROXIMATE.
2. ng/m³ – NANOGRAMS PER CUBIC METER
3. TOTAL PCBs – THE SUM OF AROCLORS 1016 THROUGH 1268.
4. J – DENOTES AN ESTIMATED CONCENTRATION. THE CONCENTRATION RESULT IS GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL) BUT LESS THAN THE PQL.

GE-AVIATION
CINCINNATI, OHIO
AIR TEST SUMMARY REPORT

DATA SUMMARY - PCB RESULTS AMBIENT PCB AIR MONITORING

ARCADIS

FIGURE 1

GC #: **GC-21 8082 High Level Method HYDROGEN**
Method: **Method 3**
Column: **GC21F ZB-1MS 20M 0.18mm 0.18um**
GC21B ZB-5 20M 0.18mm 0.18um
Date: 2/15/2013
Analyst: JKA
File Name: C:\Users\KELLYH~1.NOR\AppData\Local\Temp\XPgrpwise\[GC21_Parameters_1.xls]8082 H2 HL

Sample Delivery: SEE LEAP PARAMETERS

Column Oven:

Step	Temp (°C)	Rate (°C/min)	Hold (min)	Total (min)
Initial	150	-------	1.41	1.41
1	290	17.5	0.65	10.06

Stabilization Time (min): 0.50

Injector: Front CP-1177

1177 Oven Power: ON
1177 Temperature (°C) 300

Time	Split State	Split Ratio
Initial	ON	35

Injector: Middle CP-1177

1177 Oven Power: ON
1177 Temperature (°C) 300

Time	Split State	Split Ratio
Initial	ON	35

Flow/PSI(Front EFC, Type 1):
Carrier Gas : Helium

Step	Pres (psi)	Rate (psi/min)	Hold (min)	Total (min)
Initial	*	-------	10	10

Constant Flow Mode Enable: NO
Column Flow Rate (ml/min): 2.3

Flow/PSI(Front EFC, Type 1):

Step	Pres (psi)	Rate (psi/min)	Hold (min)	Total (min)
Initial	*	-------	10	10

Constant Flow Mode Enable: NO
Column Flow Rate (ml/min): 2.6

Detector: **Front ECD**

ECD Oven Power: ON
Temperature (°C) 300
Electronics: ON
Range: 1

Time	Range	Autozero
Initial	1	YES

Front ECD Adjustment
Time Constant: Fast
Cell Current: CAP
Contact Potential (mV): *

Middle ECD

ECD Oven Power: ON
Temperature (°C) 300
Electronics: ON
Range: 1

Time	Range	Autozero
Initial	1	YES

Fast
CAP
*

*values may change with use

Front ECD Adjustments
Make-up Flow (mL/min) 30

Middle ECD Adjustments
Make-up Flow (mL/min) 35

Analog Output

Detectors: Front: ECD Attenuation 1
Middle: ECD Attenuation 1
Rear: None

Time	Signal Source	Attenuation
Initial	Front Detector	1
Time	Signal Source	Attenuation
Initial	Middle Detector	1
Time	Signal Source	Attenuation
Initial	Rear Detector	1

Valve Table:

Time	1 None	2 None	3 None	4 None	5 None	6 None	7 None
Initial	-----	-----	-----	-----	-----	-----	-----

Initial valve state=Off

6